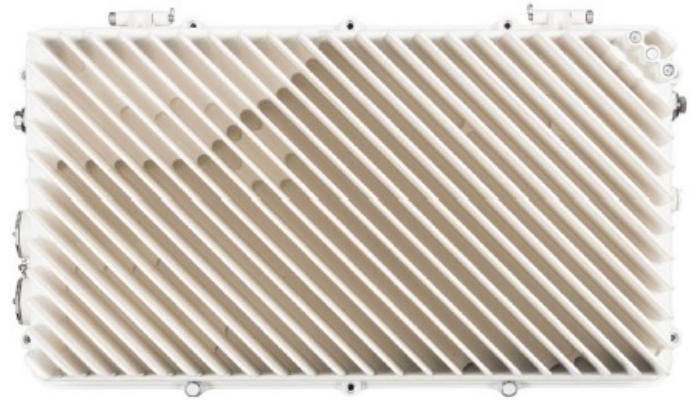


The Entra SF-4X Access Node is a sealed remote optical line terminal (R-OLT) with four 10 Gb/s Ethernet passive optical network (EPON) ports and up to four 10 Gb/s Ethernet uplinks. With support for DOCSIS® provisioning over EPON (DPoE™), the SF-4X Access Node is the ideal fiber to the home (FTTH) solution and is an essential component of the Entra unified cable access portfolio.



Highlights

- 4 ports of 10 Gb/s EPON.
- Up to 4 ports of 10 Gb/s Ethernet uplinks.
- Integrates into a unified cable access solution and virtualized Distributed Access Architecture deployments.
- Field-replaceable components, including optical modules, EPON line card and power supply modules.
- Hardened for an outside plant enclosure, and line-powered with strand, wall, and pedestal mount options.
- Easily managed by Entra® Access Controller.
- Support for DPoE enables easy integration with existing networks and systems.
- High downstream and upstream capacity enables delivery of up to 10 Gb/s of symmetrical services.
- Point-to-multipoint architecture reduces fiber costs.
- Outstanding suitability for residential greenfield, commercial services, multiple dwelling units, hybrid fiber-coaxial black spot infill, long lines, and network spurs.



ENTRA®

SF-4X ACCESS NODE

Specifications

Physical	
Height	297 mm (11.7 in)
Width	527 mm (20.7 in)
Depth	238 mm (9.4 in)
Weight	18.22 kg (40.12 lbs.)
Operating Environment	
Temperature	-40 to 60 C (-40 to 140 F)
Relative Humidity	5% to 95%, noncondensing
Altitude	-60 m to 4000 m (-196.9 ft to 13,123.4 ft)
Storage Environment	
Temperature	-40 to 70 C (-40 to 158 F)
Relative Humidity	5% to 95%, noncondensing
Altitude	-60 m to 4000 m (-196.9 ft to 13,123.4 ft)
Installation	
Mounting Options	Horizontal strand or pedestal mounting Wall or pole mounting with mounting bracket
Power Requirements	
Input Voltage	44 V to 100 V AC, nominal 90/60 V AC quasi-square wave
Power Consumption	75 W typical, 85 W maximum Coax line-powered using left or right power port and a pin connector with 5/8-24 housing
Interfaces	
Ports	4 ports of 10 Gb/s EPON for subscriber access 4 ports of 10 Gb/s for uplinks
Supported Optical Modules	
XFP for PON	10G EPON Type 4, which supports 10/10, 10/1, 2 (Turbo)/1, or 1/1 EPON line rates ER, LR, BX-U, BX-D, ZR
SFP+ for Uplinks	Coarse wavelength division multiplexing (CWDM): ZR Dense wavelength division multiplexing (DWDM): ZR, optical Ethernet ZR

Reliability	
Mean Time Between Failure (MTBF)	101,295 hr at 60 C (140 F) and 439,318 hr at 25 C (77 F) per Telcordia SR-332 Issue 3 methodology
Regulatory Standards Compliance	
EMC (Immunity/Emissions)	EN 55024
	EN 55032
	EN 55035
	EN 61000-3-2
	EN 61000-3-3
Safety	FCC PART 15 SUBPART B
	VCCI CISPR 32
	IEC/EN 60950-1
	ANSI/UL 60950-1
	CAN/CSA C22.2 No. 60950-1-07
Outdoor Use	IEC/EN 62368-1
	ANSI/UL 62368-1
	CAN/CSA C22.2 No. 62368-1
	EN 60825-1 (ONLY for SFPs)
	EN 60825-2 (ONLY for SFPs)
Corrosion Resistance	IEC 60950-22
	GR-2873-CORE
IP Rating	ASTM B117
	IP67
Surge	ANSI/SCTE 81
	IEEE C61.42
	IEEE C62.41
Environmental	IEC/EN 63000
	Hazardous substances: RoHS Directive 2011/65/EC
	Waste Electrical and Electronic Equipment: WEEE Directive 2012/95/EC